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## ABSTRACT

A real-time multimedia stream delivery system allows time-shift transition of real-time multimedia data. A transmitter delivers real-time multimedia data in multicast to receivers while storing the real-time multimedia data into a first storage. When having received a time-shift transition command from a receiver, the transmitter reads time-shifted multimedia data from the first memory depending on the time-shift transition command and transmits it in unicast to the receiver that originated the time-shift transition command.